

IN THE CLAIMS

Please amend the claim as follows:

1. (Currently Amended) A wideband optical fiber amplifier for amplifying and outputting wideband optical signals, the wideband optical signal including C-band optical signals and L-band optical signals, comprising;

a first amplification section for amplifying and outputting the wideband optical signals including the C-band optical signals and the L-band optical signals and for outputting amplified spontaneous emissions generated in a process of amplifying the wideband optical signals;

a C/L splitter for separating the wideband optical signals amplified by the first amplification section into the C-band optical signals and the L-band optical signals and then outputting separated C-band optical signals and separated L-band optical signals;

a second amplification section for amplifying and outputting the separated L-band optical signals;

an optical signal coupler for combining the separated C-band optical signals output ~~from~~ from the C/L splitter with the separated L-band optical signals amplified by the second amplification section and then outputting the combined optical signals; and

an optical circulator having a first port for receiving the wideband optical signals, a second port for causing the wideband optical signals to be output and for causing spontaneous emission generated from the first amplification section to be input, a third port for causing the spontaneous emissions to be provided as pumping lights for the second amplification section and for causing the separated L-band optical signals amplified by the second amplification section to be input and a fourth port for causing the L-band optical signals input into the third port to be output to the optical signal coupler.

2. (Original) A wideband optical fiber amplifier according to claim 1, further comprising an optical isolator for blocking optical signals advancing opposite to a direction in which the wideband optical signals advance between the first amplification section and the C/L splitter.

3. (Original) A wideband optical fiber amplifier according to claim 1, wherein the first amplification section includes:

at least one pumping diode for generating pumping lights so as to amplify the wideband optical signals input into the first amplification section;

a first rare-earth element doped optical fiber, pumped by the pumping lights, for amplifying the wideband optical signals which are input into the first rare-earth element doped optical fiber; and

a wavelength selection coupler for inputting the pumping lights generated from the at least one pumping diode into the first rare-earth element doped optical fiber on an input side of the first rare-earth element doped optical fiber.

4. (Original) A wideband optical fiber amplifier according to claim 1, wherein the second amplification section includes:

at least one pumping diode for generating pumping lights so as to amplify the separated L-band optical signals input into the second amplification section;

a second rare-earth element doped optical fiber, pumped by the pumping lights, for amplifying the separated L-band optical signals which input into the second rare-earth element doped optical fiber; and

a wavelength selection coupler for inputting the pumping lights generated from the at least one pumping diode into the second rare-earth element doped optical fiber on an input side of the second rare-earth element doped optical fiber.

5. (Original) A wideband optical fiber amplifier according to claim 1, wherein the wideband optical signals are provided by an optical communication network.

6. (Original) A wideband optical fiber amplifier according to claim 1, wherein the combined optical signals are provided to an optical communication network.